

ORBITAL SANDER WITH SUCTION RING

ABSTRACT

5 A rotary orbital sander includes a motor
having a rotatable shaft with a radially off-set
portion. A suction housing is mounted to the motor
around the motor shaft and connectable with a vacuum
source. A sanding pad assembly including a backing
10 pad having a plurality of apertures therethrough and
an annular frame having a circumferential side wall
including first and second circumferential edges is
mounted to the radially off-set portion of the shaft.
A circular back wall extends from one of the
15 circumferential edges and has an opening therein
sealable with the suction housing. The other
circumferential edge is attached to the backing pad.
The sanding pad assembly resists flapping at high
rotational speeds. A sanding disk having a size and
20 shape complimentary to that of the sanding pad, and a
plurality of holes aligning with the apertures in the
sanding pad is mountable on the sanding pad. A
vacuum source draws sanding waste through the aligned
apertures and out the suction housing.

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